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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,684	01/10/2005	Hans-Georg Goebbel	263762US0PCT	9273
22850 7590 01/03/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			WITHERSPOON, SIKARL A	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1621	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 01/03/2007 PAPER		PER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/519,684	GOEBBEL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sikarl A. Witherspoon	1621				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		·				
1) Responsive to communication(s) filed on 04 O	ctober 2005					
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•						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	г.	•				
10)⊠ The drawing(s) filed on 10 January 2005 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) □ Some * c) □ None of:						
	1. Certified copies of the priority documents have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list		ed.				
•						
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>5/9/05</u> . 5) Notice of Informal Patent Application 6) Other:						

Application/Control Number: 10/519,684

Art Unit: 1621

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaibel et al (US 5,939,589) in view of Brocker et al (US 6,150,564).

The instant claims are drawn to a process for preparing tetrahydrogeranylacetone by liquid phase hydrogenation of pseudoionone in the presence or a palladium-containing catalyst suspended through a device that inhibits the transport of catalyst particles.

Kaibel et al teach a reactor for carrying out reactions, such as hydrogenations, wherein the catalyst is suspended in a liquid. The reactor contains orifices or channels of a diameter from 0.5 to 20 mm (abstract). The reactor may comprise a bed, a knitted fabric, a foam structure of plastic or ceramic, or any other known packing element. Preferably, the orifices or channels have surface roughnesses of 0.1 to 10 times the average particle size of the suspended catalyst (col. 2, lines 28 to 67).

The difference between Kaibel et al and the instant claims is that Kaibel et al have an example wherein a different compound is being hydrogenated, specifically, a compound having only one site of unsaturation, while pseudoionone, which is hydrogenated in the present invention, contains multiple (three) sites of unsaturated.

Art Unit: 1621

However, Brocker et al teach a process for the selective liquid phase hydrogenation of compounds having multiple sites of unsaturated, i.e., alpha, beta-unsaturated carbonyl compounds, wherein the hydrogenation is carried out in a packed bubble column reactor, using a palladium or rhodium catalyst. Suitable packing materials include metallic materials, plastics, ceramics, and/ or inorganic fibers (col. 2, lines 12-67).

In light of the combined reference teachings, it would have been prima facie obvious to conduct a hydrogenation reaction of a mono-unsaturated carbonyl compound, as taught by Kaibel et al, or a poly-unsaturated carbonyl compound, using a reactor having a catalyst suspended through a device that inhibits transport of catalyst particles as taught in both references, especially since Brocker et al teach that since catalyst particles are slowed down and held up at the packing channel walls, an improvement in hydrodynamics is achieved, which enhances catalyst utilization (col. 2, lines 22-28).

Specification

The disclosure is objected to because of the following informalities: a heading, "Brief Description of the Drawings" is missing.

Appropriate correction is required.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikarl A. Witherspoon whose telephone number is 571-272-0649. The examiner can normally be reached on M-F 8:30-6:30.

Art Unit: 1621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Suland A. Witherspoon SIKARLA. WITHERSPOON PRIMARY EXAMINER